UNREDACTED VERSION OF EXHIBIT 4 SOUGHT TO BE FILED UNDER SEAL

From: To: Sent: Subject: Cc:	Case 3:17-cv-00939-WHA Document 1698-7 Filed 09/19/17 Page 2 of 9 Sasha Zbrozek Shana Stanton Wed, 22 Feb 2017 13:49:40 -0800 Re: [URGENT] File Downloads [privileged&confidential] Gary Brown , "Thomas E. Gorman" <tgorman@kvn.com>, Raquel Small-Weikert , Kristinn Gudjonsson , Pierre-yves Droz , Tom Lue</tgorman@kvn.com>
	, James Judah <jamesjudah@quinnemanuel.com>, Jordan Jaffe <jordanjaffe@quinnemanuel.com>, Melissa Bail paily@quinnemanuel.com> actions.pdf</jordanjaffe@quinnemanuel.com></jamesjudah@quinnemanuel.com>
Typical S	SVN installation flow attached.
On Wed,	Feb 22, 2017 at 1:20 PM, Sasha Zbrozek wrote:
On We	ed, Feb 22, 2017 at 12:27 PM, Shana Stanton wrote:
	es, Jordan & Melissa et, thanks.
Sasha, we	e want to also be able to say that SVN contains only internal confidential stuff, which I understand from Pierre is se.
part nu	There's a bit of boilerplate and low-value stuff. There are representations of standard components, lists of public mbers from distributors, some open-source stuff, and some random doodads that nobody cares at all about - all arge fraction of the total.
	r you said: "4486 files (2022953160 bytes) are from the laser subdirectory" - just wanted to be clear about the significance of that. What other ies are represented here?
	ser subdirectory is where the laser team stores their design files. There may be some straggling (or old) laser stuff r folders (and vice-versa), but not much.
Other tea tree?	ms store things in other subdirectories. Radar, for example, has their own subdirectory. Have you looked at the
On W	red, Feb 22, 2017 at 12:15 PM, Gary Brown wrote:
Confir	med.
	nyl.log grep -oP 'GET\\S+\ HTTP.1.1.\ 200\\d+' sort uniq we -l
14107 \$ cat anthor 4486	nyl.log grep -oP 'GET\\S+\ HTTP.1.1.\ 200\ \d+' sort uniq grep -i laser wc -l
sizes \$ cat anthor 974256282	nyl.log grep -oP 'GET\\S+\ HTTP.1.1.\ 200\\d+' sort uniq cut -f 5 -d \ paste -sd+ - bc
	nyl.log grep -oP 'GET\\S+\ HTTP.1.1.\ 200\\d+' sort uniq grep -i laser cut -f 5 -d \ paste -sd+ - bc
On Wed,	Feb 22, 2017 at 11:57 AM Thomas E. Gorman < TGorman@kvn.com > wrote:
https	s://drive.google.com/open?id

From: Gary Brown [mailto]
Sent: Wednesday, February 22, 2017 11:56 AM

Cc: Thomas E. Gorman; Raquel Small-Weikert; Kristinn Gudjonsson; Pierre-yves Droz; Tom Lue

Subject: Re: [URGENT] File Downloads [privileged&confidential]

Where does that log file reside? I'll take a crack and confirm.

On Wed, Feb 22, 2017 at 11:28 AM Shana Stanton wrote:

Gary/Kristinn- help please?

On Wed, Feb 22, 2017 at 11:22 AM, Sasha Zbrozek wrote

I have no experience with trying to distill evidence from logs, so I don't know.

On Wed, Feb 22, 2017 at 11:21 AM, Shana Stantor

Thank you Sasha, very helpful. Who can help double check the log analysis?

On Wed, Feb 22, 2017 at 11:12 AM, Sasha Zbrozek

I generally don't do logs analysis for a living, so I wouldn't mind someone double checking my procedure. But here's what I did:

count of total files:

cat anthonyl.log | grep -i get >> anthonyl-allfiles.log

wc -1 anthonyl-allfiles.log

Case 3:17-cv-00939-WHA Document 1698-7 Filed 09/19/17 Page 4 of 9 count of laser files: cat anthonyl.log | grep -i get | grep -i laser >> anthonyl-laserfiles.log wc -l anthonyl-laserfiles.log Filesizes were a little more complicated. I used a text editor to remove all non-filesize text from each of the files produced above by matching against these two regular expressions: "-".* .*200 and deleting the results. Then I fed the results into calculator to get totals: awk '{s+=\$1} END {print s}' anthonyl-allfiles.log awk '{s+=\$1} END {print s}' anthonyl-laserfiles.log On Wed, Feb 22, 2017 at 10:41 AM, Shana Stanton wrote: p.s.: and Sasha your method for verifying this is solid enough that if we needed testimony from you, you could explain how we did and feel confident in accuracy? On Wed, Feb 22, 2017 at 10:35 AM, Shana Stanton wrote: Amazing- thank you for the quick turn around.

On Wed, Feb 22, 2017 at 10:20 AM, Sasha Zbrozek

wrote:

14107 total files (9742562821 bytes) downloaded 4486 files (2022953160 bytes) are from the laser subdirectory On Wed, Feb 22, 2017 at 8:51 AM, Shana Stanton wrote: To answer Sasha's earlier question: yes, I need someone to parse the log snippets to answer the questions posed ASAP this AM. These are super important facts that we need to vet today. Sasha, this exercise has no relevance to the normal day to day actions taken by engineers. Tom Lue and I will be happy to explain further, but in short we are looking at suspicious actions taken immediately prior to departure. This is a very sensitive matter so please do not share outside of the group on this thread. Thank you! Gary/Shasha- I would like to dig in further today on the patter/record of activity by this particular user. On Wed, Feb 22, 2017 at 8:33 AM, Gary Brown I ask because we have machine logs going back a few years, and I'm curious as to what other apps I should be looking for. On Wed, Feb 22, 2017, 08:25 Sasha Zbrozek wrote: Typically yes, though some folks preferred the command line utilities and some liked the CAD tool's compiled-in flavor. The logs will look more-or-less the same regardless of the client. On Wed, Feb 22, 2017 at 8:23 AM, Gary Brown wrote:

Case 3:17-cv-00939-WHA Document 1698-7 Filed 09/19/17 Page 5 of 9

Hey Sasha,
Were those systems interacted with in the same fashion (tortoisesvn)?
On Wed, Feb 22, 2017 at 8:20 AM Sasha Zbrozek wrote:
On Wed, Feb 22, 2017 at 7:39 AM, Shana Stanton wrote:
All:
We urgently need someone to run down these facts today ASAP. It is critical that we confirm:
1) # of files in the download
2) #GBs
Who can do this?
Well, Anthony's log speaks to the number of files. It also expresses the (rough) filesize for each transaction. Figuring out the totals for both can be done by parsing the log snippet. Do you need assistance with that? I'm a little leery because both of those numbers aren't really meaningful to any narrative. It also has a chilling effect on being a hardware engineer - we all do full checkouts, and it makes me uncomfortable to think that lawyers are trying to ascribe suspicion to it.
Sasha: the issue here is that this particular user had not done this before, at least as far as our logs records show (~5months I think) and the timing of this action 6 weeks prior to departure is suspicious. Who can help me vet whether our views on this have a solid foundation? In other words, is there any way we can vet today whether

this user had ever installed this software and accessed this system, or are we left with only 5 months of info?

This system's logs are only as old as you see. There was a predecessor system hosted on no log visibility there, but some might exist. Before that (2012?) we had Everything from then is probably long gone.	e
Everything from their is productly rong gone.	
Chara Chartani Carina Litinatian Carrala I.a.	
Shana Stanton Senior Litigation Counsel Google Inc.	
1600 Amphitheatre Parkway Mountain View, CA 94043	
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Case 3:17-cv-00939-WHA Document 1698-7 Filed 09/19/17 Page 9 of 9

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